What is claimed:

- 1. A method of effectively treating hypertension, angina, or both conditions in a human patient, comprising: administering felodipine transdermally to the human patient by applying a transdermal delivery system containing felodipine to the skin of a patient, and maintaining said transdermal delivery system in contact with the skin of said patient for at least 3 days, said transdermal delivery system maintaining an effective mean relative release rate to provide a therapeutic blood level of said felodipine within 36 hours from the initiation of the dosing interval, and thereafter maintaining a therapeutic blood level until the end of at least the three-day dosing interval.
- 2. The method of claim 1, further comprising providing a mean relative release rate of felodipine from said transdermal delivery system to provide a plasma level of felodipine of at least about 0.1 ng/ml within about 6 hours after application of said transdermal delivery system onto the skin of the patient.
- 3. The method of claim 1, further comprising maintaining a plasma level of felodipine at steady-state from about 1.0 to about 3.0 ng/ml.
- 4. The method of claim 1, wherein said therapeutic plasma level is maintained from about 0.1 ng/ml to about 3.3 ng/ml during the dosing interval for said transdermal delivery system.
- 5. The method of claim 1, wherein said transdermal delivery system has a mean relative release rate from about 0.5 μm/hour/cm² to about 25 μm/hour/cm² of said transdermal delivery system.
- 6. The method of claim 1, wherein said transdermal delivery system has a mean relative release rate from about 4.2 μg/cm²/hr to about 20.0 μg/cm²/hr at 24 hours; from about 3.3 μg/cm²/hr to about 14.0 μg/cm²/hr at 48 hours; and from about 2.7 μg/cm²/hr to about 10.8 μg/cm²/hr at 72 hours; as determined via an in-vitro permeation test utilizing a Valia-Chien cell where the membrane is a human cadaver skin and said cell has a receptor chamber containing a 40:60 mixture of Ethanol:water.

- 7. The method of claim 1, wherein said transdermal delivery system provides an in-vitro cumulative amount of permeation of from about 63 μ g/cm² to about 388 μ g/cm² at 24 hours; from about 105 μ g/cm² to about 660 μ g/cm² at 48 hours; and from about 139 μ g/cm² to about 854 μ g/cm² at 72 hours, as determined via an in-vitro permeation test utilizing a Valia-Chien cell where the membrane is a human cadaver skin and said cell has a receptor chamber containing a 40:60 mixture of Ethanol:water.
- 8. A method of effectively treating hypertension, angina, or both conditions in a human patient, comprising:

 administering felodipine transdermally to the human patient by applying a transdermal delivery system containing felodipine to the skin of a patient, and maintaining said transdermal delivery system in contact with the skin of the patient for at least 5 days, said transdermal delivery system maintaining an effective mean relative release rate to provide a therapeutic blood level of said felodipine within three days from the initiation of the dosing interval, and thereafter maintaining a therapeutic blood level until the end of at least the five-day dosing interval.
- 9. The method of claim 8, wherein the plasma level of felodipine at 48 hours does not decrease by more than 30% over the next 72 hours.
- 10. The method of claim 8, further comprising maintaining an effective mean relative release rate of said transdermal delivery system to provide a substantially first order plasma level increase of felodipine from the initiation of the dosing interval until about 48 to about 72 hours after the initiation of the dosing interval; and thereafter providing an effective mean relative release rate to provide a substantially zero order plasma level fluctuation of felodipine until the end of at least the five-day dosing interval.
- 11. The method of claim 8, further comprising providing a mean relative release rate of felodipine from said transdermal delivery system to provide a plasma level of felodipine of at least about 0.1 ng/ml within about 6 hours after application of said transdermal delivery system onto the skin of the patient.
- 12. The method of claim 8, further comprising maintaining a plasma level of felodipine at steady-state from about 1.5 to about 2.3 ng/ml.

- 13. The method of claim 8, wherein said therapeutic plasma level is maintained from about 0.1 ng/ml to about 3.3 ng/ml during the dosing interval for said transdermal delivery system.
- 14. The method of claim 8, wherein said transdermal delivery system has a mean relative release rate from about $0.5~\mu m/hour/cm^2$ to about 25 $\mu m/hour/cm^2$ of said transdermal delivery system.
- 15. The method of claim-8, wherein said transdermal delivery system has a mean relative release rate from about 4.2 µg/cm²/hr to about 20.0 µg/cm²/hr at 24 hours; from about 3.3 µg/cm²/hr to about 14.0 µg/cm²/hr at 48 hours; and from about 2.7 µg/cm²/hr to about 10.8 µg/cm²/hr at 72 hours; and a mean relative release rate from about 2.4 µg/cm²/hr to about 8.9 µg/cm²/hr at 96 hours; as determined via an in-vitro permeation test utilizing a Valia-Chien cell where the membrane is a human cadaver skin and said cell has a receptor chamber containing a 40:60 mixture of Ethanol:water.
- 16. The method of claim 8, wherein said transdermal delivery system provides an in-vitro cumulative amount of permeation of from about 63 µg/cm² to about 388 µg/cm² at 24 hours; from about 105 µg/cm² to about 660 µg/cm² at 48 hours; and from about 139 µg/cm² to about 854 µg/cm² at 72 hours; and from about 231 µg/cm² to about 850 µg/cm² at 96 hours; as determined via an in-vitro permeation test utilizing a Valia-Chien cell where the membrane is a human cadaver skin and said cell has a receptor chamber containing a 40:60 mixture of Ethanol:water.
- 17. A method for lessening the incidence of side-effects in a patient associated with the oral administration of felodipine, wherein the method comprises administering said felodipine in a transdermal delivery system over at least twenty-four hours and thereby lessening the incidence of side effects.
- 18. The method of claim 17, wherein said felodipine is administered in a transdermal delivery system applied to the skin of a human patient for about 3 to about 5 days.
- 19. The method of claim 17, wherein said transdermal delivery system has a mean relative release rate from about 0.5 μm/hour/cm² to about 25 μm/hour/cm² of said transdermal delivery system.

- 20. A transdermal delivery system containing felodipine or a pharmaceutically acceptable salt thereof which provides a mean relative release rate from about 0.5 µm/hour/cm² to about 25 µm/hour/cm² of said transdermal delivery system; a plasma level of felodipine of at least about 0.1 ng/ml by about 6 hours after application of said transdermal delivery system onto the skin of the patient, and a plasma level of felodipine at steady-state from about 0.1 to about 3.3 ng/ml.
- 21. The transdermal delivery system of claim 20, which provides a mean relative release rate from about 4.2 μg/cm²/hr to about 20.0 μg/cm²/hr at 24 hours; from about 3.3 μg/cm²/hr to about 14.0 μg/cm²/hr at 48 hours, and from about 2.7 μg/cm²/hr to about 10.8 μg/cm²/hr at 72 hours; as determined via an in-vitro permeation test utilizing a Valia-Chien cell where the membrane is a human cadaver skin and said cell has a receptor chamber containing a 40:60 mixture of Ethanol:water.
- 22. The transdermal delivery system of claim 20, which provides an in-vitro cumulative amount of permeation of from about 63 μg/cm² to about 388 μg/cm² at 24 hours; from about 105 μg/cm² to about 660 μg/cm² at 48 hours; and from about 139 μg/cm² to about 854 μg/cm² at 72 hours; and from about 231 μg/cm² to about 850 μg/cm² at 96 hours; as determined via an in-vitro permeation test utilizing a Valia-Chien cell where the membrane is a human cadaver skin and said cell has a receptor chamber containing a 40:60 mixture of Ethanol:water.
- 23. The transdermal delivery system of claim 20, comprising a backing layer which is impermeable to the active substance, a pressure-sensitive adhesive reservoir layer, and optionally a removable protective layer, the reservoir layer by weight comprising 20 to 90% of a polymeric matrix, 0.1 to 30% of a softening agent, 0.1 to 20% of felodipine base or of a pharmaceutically acceptable salt thereof and 0.1 to 30% of a solvent for the felodipine or salt thereof.

- 24. The transdermal delivery system of claim 20, which is a laminated composite comprising (a) a polymer backing layer that is substantially impermeable to felodipine or the pharmaceutically acceptable salt thereof; and (b) a reservoir layer comprising an acrylate or silicon based pressure-sensitive adhesive, 0.1 to 20% of felodipine base or of a pharmaceutically acceptable salt thereof, 0.1 to 30% of an ester of a carboxylic acid acting as a softening agent and 0.1 to 30% of a solvent for felodipine having at least one acidic group.
- 25. The transdermal delivery system of claim 20, which maintains a plasma level of felodipine at steady-state from about 1.5 to about 2.3 ng/ml.
- 26. A transdermal delivery system comprising felodipine or a pharmaceutically acceptable salt thereof which maintains an effective mean relative release rate to provide a therapeutic blood level of said felodipine within three days from the initiation of the dosing interval, and thereafter maintaining a therapeutic blood level until the end of at least the five-day dosing interval.
- 27. The transdermal delivery system of claim 25, which has a mean relative release rate of felodipine effective to provide a plasma level of felodipine of at least about 0.1 ng/ml by about 6 hours after application of said transdermal delivery system onto the skin of the patient.
- 28. The transdermal delivery system of claim 25, which maintains a plasma level of felodipine at steady-state from about 1.5 to about 2.3 ng/ml.
- 29. The transdermal delivery system of claim 25 wherein said therapeutic plasma level is maintained from about 0.1 ng/ml to about 3.3 ng/ml during the dosing interval for said transdermal delivery system.
- 30. The transdermal delivery system of claim 25, wherein said transdermal delivery system has a mean relative release rate from about 0.5 µm/hour/cm² to about 25 µm/hour/cm² of said transdermal delivery system.

- 31. The transdermal delivery system of claim 25, wherein said transdermal delivery system has a mean relative release rate from about 4.2 µg/cm²/hr to about 20.0 µg/cm²/hr at 24 hours; from about 3.3 µg/cm²/hr to about 14.0 µg/cm²/hr at 48 hours; and from about 2.7 µg/cm²/hr to about 10.8 µg/cm²/hr at 72 hours; and a mean relative release rate from about 2.4 µg/cm²/hr to about 8.9 µg/cm²/hr at 96 hours; as determined via an in-vitro permeation test utilizing a Valia-Chien cell where the membrane is a human cadaver skin and said cell has a receptor chamber containing a 40:60 mixture of Ethanol:water.
- 32. The transdermal delivery system of claim 25, wherein said transdermal delivery system provides an in-vitro cumulative amount of permeation of from about 63 µg/cm² to about 388 µg/cm² at 24 hours; from about 105 µg/cm² to about 660 µg/cm² at 48 hours; and from about 139 µg/cm² to about 854 µg/cm² at 72 hours; and from about 231 µg/cm² to about 850 µg/cm² at 96 hours; as determined via an in-vitro permeation test utilizing a Valia-Chien cell where the membrane is a human cadaver skin and said cell has a receptor chamber containing a 40:60 mixture of Ethanol:water.
- 33. The transdermal delivery system according to claim 23, wherein the backing layer is composed of a flexible material.
- 34. The transdermal delivery system according to claim 23, wherein the backing layer is selected from the group consisting of a flexible material, an-inflexible material, and an aluminum foil.
- 35. The transdermal delivery system according to claim 23, wherein the polymeric matrix is at least one of rubber, a rubber-like synthetic homo-, co-blockpolymer, a urethane and silicone.
- 36. The transdermal delivery system according to claim 23, wherein the softening agent is at least one of dodecanol, undecanol, octanol, a glycol and glycanol.
- 37. The transdermal delivery system according to claim 23, wherein the solvent is a monoester of a dicarboxylic acid.
- 38. The transdermal delivery system according to claim 23, wherein the solvent is at least one of monomethyl glutarate and monomethyl adipate.

- 39. The transdermal delivery system according to claim 23, wherein the polymer is a copolymer of 2-ethylhexyl acrylate, vinyl acetate and acrylic acid, the softening agent is dodecanol and the solvent is monomethyl glutarate.
- 40. The transdermal delivery system according to claim 23, wherein by weight the polymer is present in about 55%, the felodipine in about 10%, the solvent in about 10% and the softener in about 15%.
- 41. A transdermal delivery system according to claim 23, wherein the solvent is present in from about 25 to 100% the weight of the felodipine.
- 42. The transdermal delivery system according to claim 23, which also comprises a removable protective layer.
- 43. The transdermal delivery system according to claim 23, wherein the pressure-sensitive adhesive reservoir layer comprises a polymer based on an acrylate, a methacrylate, a silicon compound or a combination thereof.
- 44. The transdermal delivery system according to claim 23, wherein the softening ester is a medium-chain triglyceride of the caprylic/capric acids of coconut oil.
- 45. The transdermal delivery system according to claim 23, wherein the solvent has at least one acidic group.